

NOVEMBER/DECEMBER 2025

**FIM41/CIM41 — JAVA PROGRAMMING**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. List any four features of Java.
2. Which operators are used in string manipulation?
3. Write a note on autoboxing. Give a simple example.
4. What is the use of super keyword?
5. Define Multithreading.
6. Write the syntax for creating a thread using the Runnable interface.
7. What is the use of Panel?
8. List the constructors used by Frame class.
9. Differentiate AWT and swings.
10. Outline the term JDBC.



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SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain string handling in Java with an example.

Or

- (b) Illustrate different control statements in Java with examples.

12. (a) Write a Java program to implement method overloading.

Or

- (b) Explain the concept of inheritance with an example.

13. (a) What is exception handling? Write a program using try-catch.

Or

- (b) Discuss synchronization in multithreading with a sample code.

14. (a) Discuss briefly about the Event Handling and Listener interfaces.

Or

- (b) Explain the use of layout managers with a neat example.

15. (a) Write a short note on Swing GUI components.

Or

- (b) Explain JDBC architecture with an example of connecting to a database.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Develop a Java program to search for a substring inside a given string and display its position.

17. Write a Java program to implement multiple inheritance using interfaces.

18. Construct a Java program to create two threads: one to print even numbers and another to print odd numbers.

19. Design a simple calculator using Swing components.

20. Describe the steps to be followed in connecting database with a java application.

